Headquarters U.S. Air Force

Integrity - Service - Excellen ce

C4ISR Roadmap Overview

Shortening the Kill Chain Through Net Centric Ops

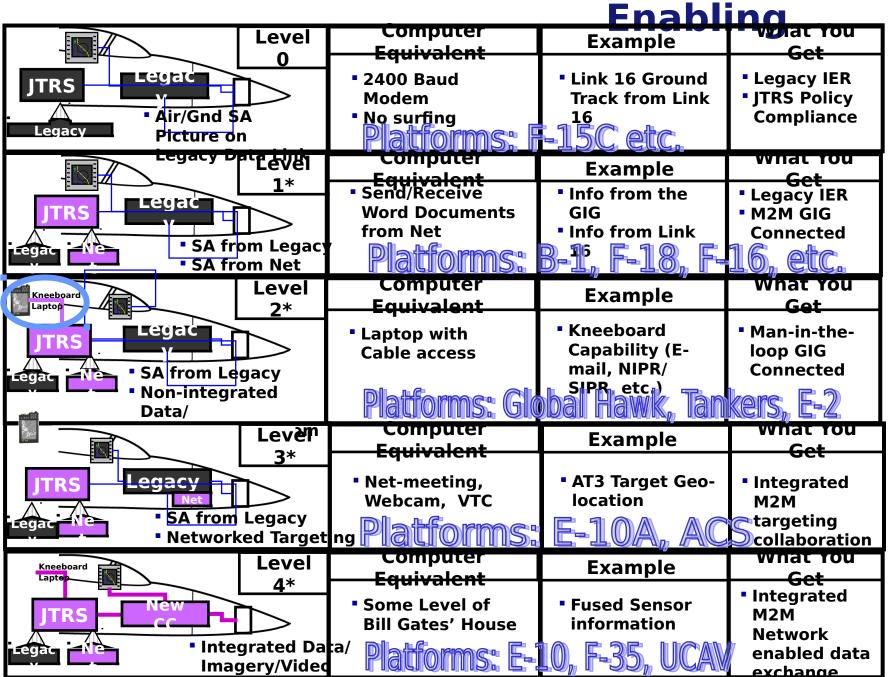


Lt Col James "Magic"
Henderson
SAF/XCIE

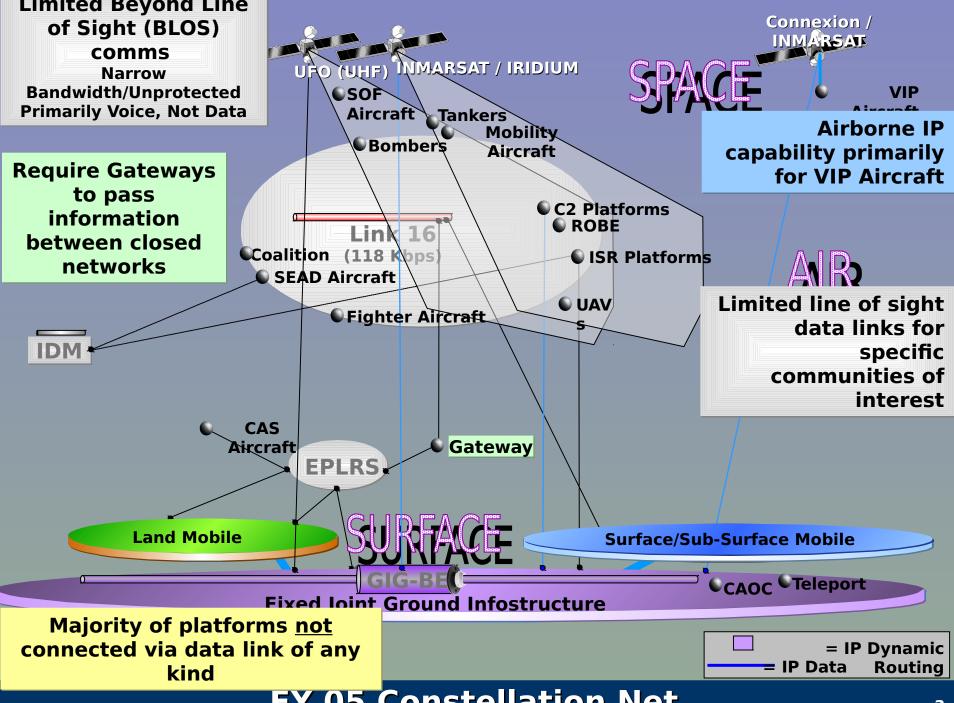
703-588-6166

james.henderson@pentagon.af.mil

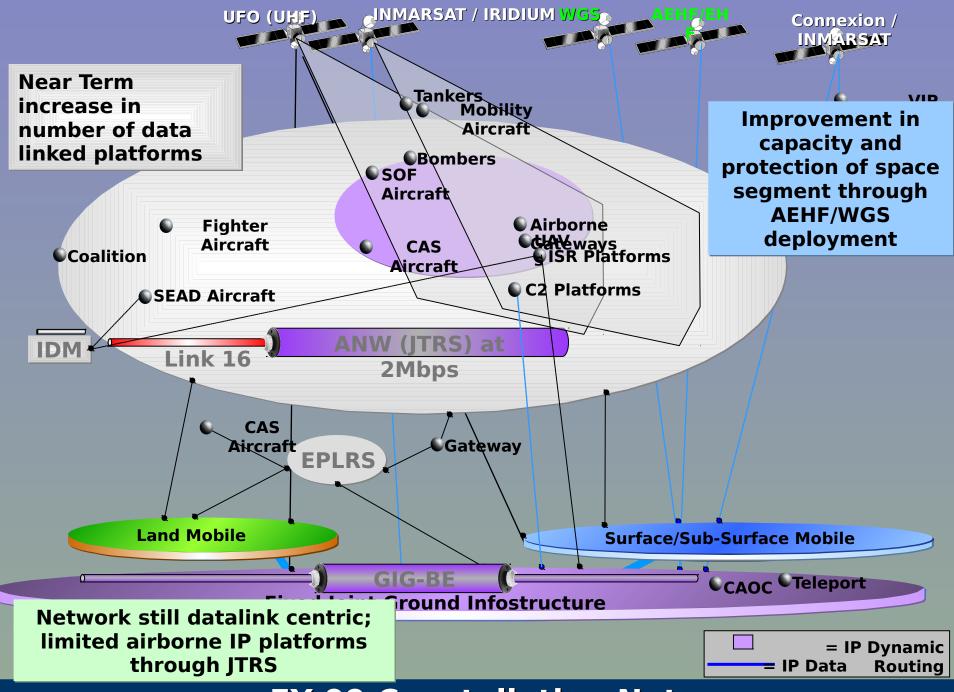
Levels of Aircraft Network

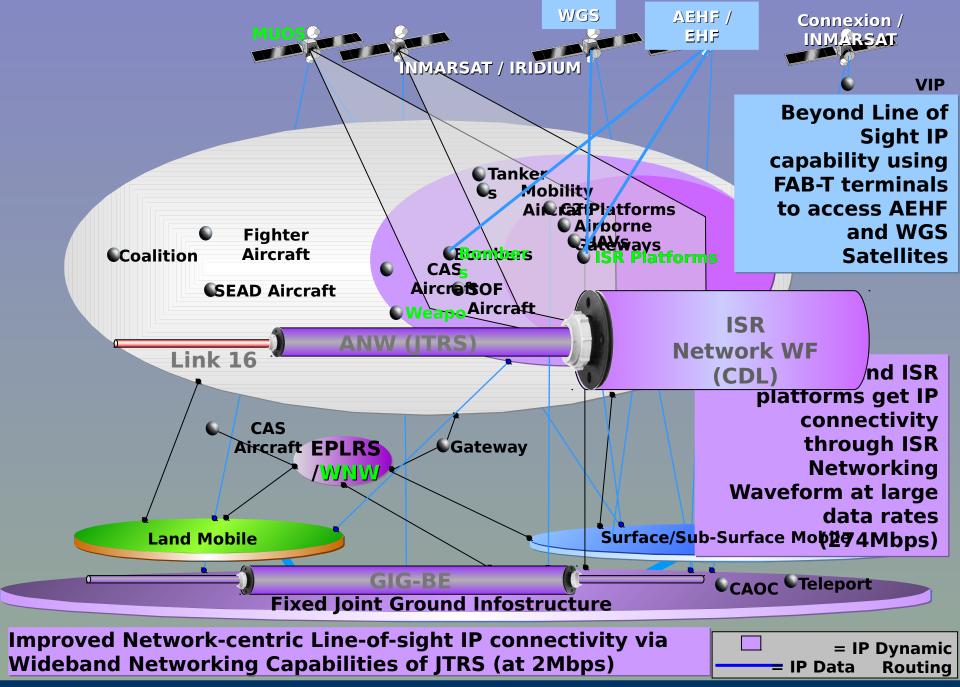


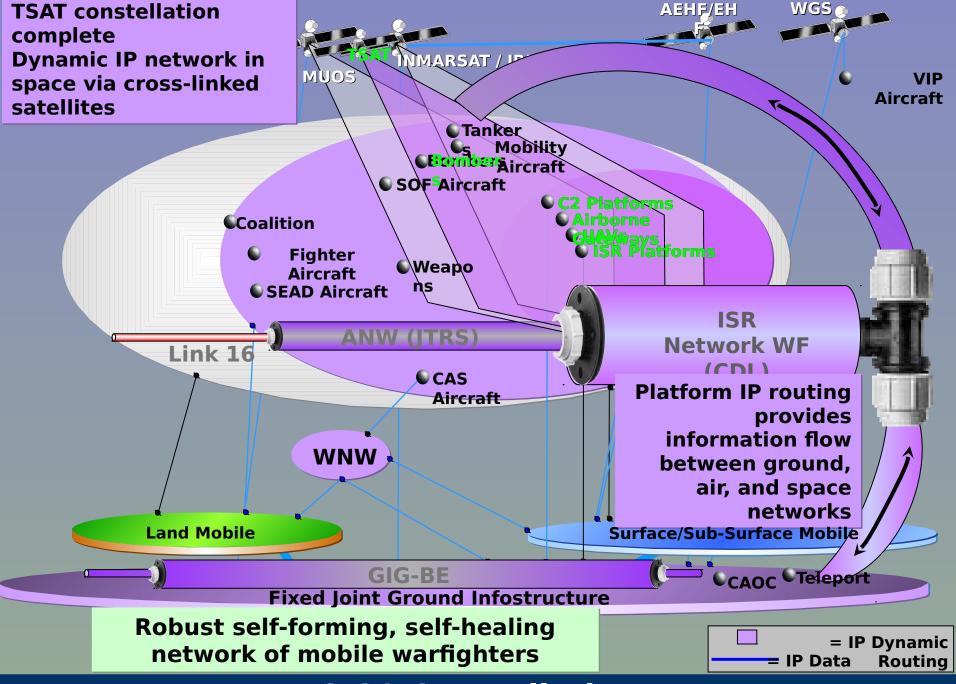
* Requires additional ancillary equipment to integrate networking of

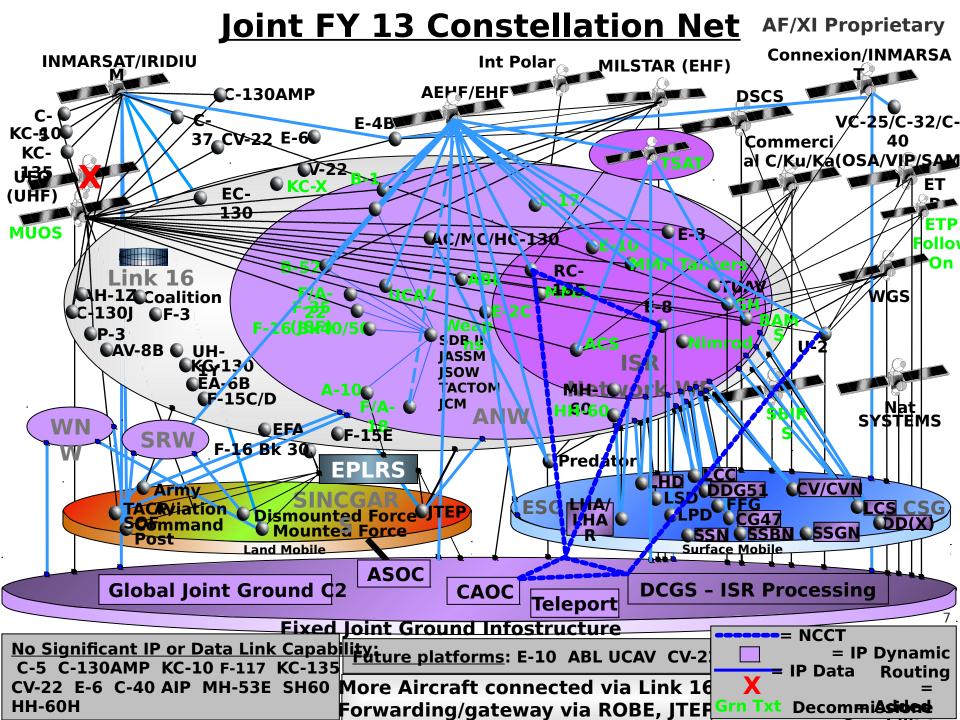


FY 05 Constellation Net













DCGS

NETWORK COMMON DATALINK WAVEFORM

FAB-T or AMF JTRS AVAILABLE: FY13 DATA RATE: 274 Mbps



AIRBORNE NETWORKING WAVEFORM

AMF JTRS, MIDS JTRS AVAILABLE: FY08 DATA RATE: 2 Mbps



CSG/ES G





SRW SOLDIER RADIO **WAVEFORM** (Wireless Handheld)

> **JTRS CLUSTER 5 AVAILABLE: TBD** DATA RATE: 1 Mbps



学工作有名

Army UA, 😘 UEx, UEy or USMC ground unit



CAOC



WIDEBAND NETWORKING **WAVEFORM**

AMF JTRS, CLUSTERS 1 &

AVAILABLE: TBD

DATA RATE: 2 Mbps









DCGS

SATCOM CAPABILITIES

MUOS

TERMINALS: CSEL; JTRS; JTT; MBMMR **DATA RATE: 64 Kbps**

AEHF

TERMINALS: SCAMP; SMART-T; FAB-T DATA RATE: 8 Mpbs



WGS

TERMINALS: GMF; LMST;

FAB-T; GMT

DATA RATE: 137 Mbps

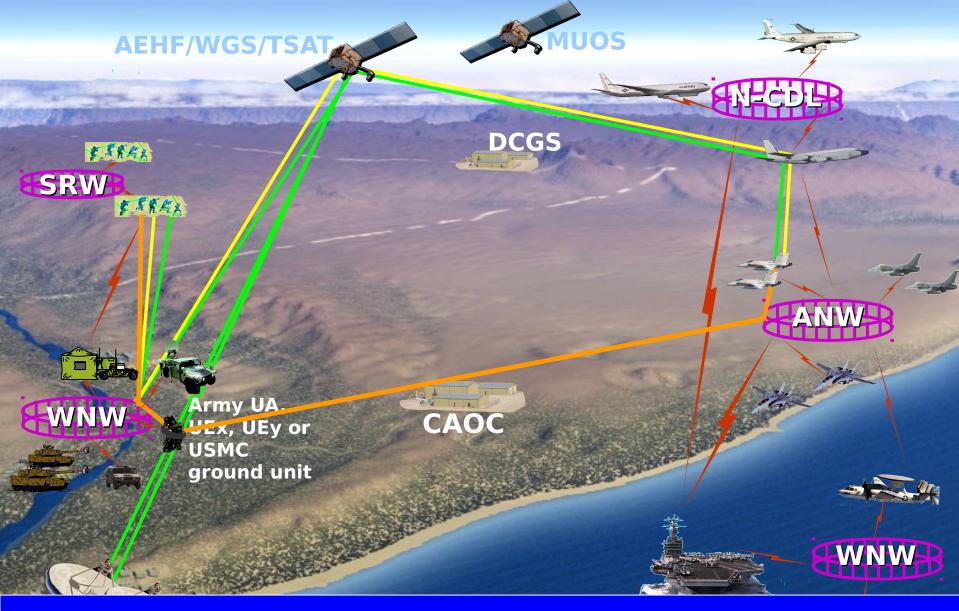
TSAT

TERMINALS: FAB-T; GMT DATA RATE: 45 Mbps - 1

Gbps

Wideband capability at Battalion level and above on ground; large body aircraft in the air; ships at sea





Multi-Waveform Radios Kill Many Interoperability Seams!



IP-Based Routing, Shared Data, Assured Service To Conduct Global Employment & Sustainment Operations